WHAT IS CLAIMED IS:

- 1. A magnetic device, comprising:
- 2 a magnetic core; and
- a springable winding, positioned about at least a portion of 3
- said magnetic core, having a terminus biased against said magnetic 4
- 5 core.
- 2 3 3 2 1 1 1 1 2 1 2. The magnetic device as recited in Claim 1 wherein said terminus is configured to be interposed between said magnetic core and a printed circuit board.
- 3. The magnetic device as recited in Claim 1 wherein said springable winding comprises a material having a spring constant 3 📮 ranging from about 750 to about 2000 grams/inch.
- 4. The magnetic device as recited in Claim 1 wherein said magnetic core comprises an integrally formed pedestal. 2

- 5. The magnetic device as recited in Claim 1 wherein said
 2 magnetic core comprises a ferromagnetic material having a
- 3 composition selected from the group consisting of:
- 4 cobalt-iron,
- 5 manganese-zinc,
- 6 nickel-iron, and
- 7 amorphous nickel-phosphide.
 - 6. The magnetic device as recited in Claim 1 wherein said springable winding comprises a substantially-planar wire having a dielectric insulation about said substantially-planar wire.
- 7. The magnetic device as recited in Claim 1 wherein said magnetic core and said springable winding are substantially free of an encapsulant.
- 8. The magnetic device as recited in Claim 1 wherein said
 2 magnetic device is selected from the group consisting of:
- 3 an inductor,
- 4 a coupled inductor, and
- 5 a transformer.

- 9. The magnetic device as recited in Claim 1 wherein said
 2 magnetic core comprises first and second core halves.
- 10. The magnetic device as recited in Claim 1 wherein at
- 2 least a portion of said magnetic core has an aspect ratio of at
- 3 least 1.6:1.

- A method of manufacturing a magnetic device, comprising: 11. providing a magnetic core;
- positioning a springable winding having a terminus about at 3 4 least a portion of said magnetic core; and
- 5 biasing said terminus against said magnetic core.

2

2 🛁

3 🕌

4

- The method as recited in Claim 11 further comprising 12. forming said springable winding such that said terminus is 2 interposed between said magnetic core and a printed circuit board.
 - 13. The method as recited in Claim 12 wherein forming includes bending said springable winding about a mandrel.
 - The method as recited in Claim 11 wherein positioning includes positioning a springable winding comprising a material having a spring constant ranging from about 750 to about 2000 grams/inch.
- 15. The method as recited in Claim 11 wherein providing 2 includes providing a magnetic core having an integrally-formed 3 pedestal.

2

3

- 16. The method as recited in Claim 11 wherein providing includes providing a magnetic core composed of a ferromagnetic material selected from the group consisting of:
- 4 cobalt-iron,
- 5 manganese-zinc,
- 6 nickel-iron, and
- 7 amorphous nickel-phosphide.
 - 17. The method as recited in Claim 11 wherein positioning includes positioning a springable winding formed from a substantially planar wire having a dielectric insulation.
 - 18. The method as recited in Claim 11 wherein providing and positioning include providing a magnetic core and positioning a springable winding wherein said magnetic core and said springable winding are substantially free of an encapsulant.
 - 19. The method as recited in Claim 11 wherein said positioning includes positioning a second springable winding about said magnetic core.

- 20. The method as recited in Claim 11 wherein providing
- 2 includes providing wherein at least a portion of said magnetic core
- 3 has an aspect ratio of at least 1.6:1.